

WO 01/16172

PCT/AU00/01048

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SEQUENCE LISTING

<110> The University of Melbourne
Commonwealth Scientific and Industrial Research Organisation

<120> Vaccine antigens of Moraxella

<160> 9

<170> PatentIn Ver. 2.1

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<212> PRT

<213> Moraxella bovis

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Lys Tyr Ser Phe Tyr Asp Tyr Tyr Leu Asp Phe Leu Lys Arg Phe Arg
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Pro Thr Pro Thr Pro Val Pro Ser Pro Val Arg Pro Ala Pro Glu Leu
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Val Arg Pro Thr Pro Ala Pro Ile Pro Ala Pro Thr Pro Val Pro Thr
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Pro Ala Pro Ile Ser Gly Gly Ile Ser Gly Ser Tyr Ile Ala Pro Val
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Ser Pro Ser Glu Val Arg Gln Pro Asp Tyr Thr Arg Arg Val Gln Ala
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Asn Leu Lys Arg Asn Gln Pro Ala Pro Ser Ala Gly Thr Arg Thr Gly
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Tyr Gly Thr Thr Glu Asp Gly Tyr Ala Glu Arg Leu Asp Asn Leu Lys
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Asn Thr Ile Asp Thr Arg Gln Ala Lys Val Gly Val Ile Asp Thr Gly
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Ile Asn Arg Phe Asn Arg Asp Leu Val Gly Ala Asn Val His Asp Thr
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 Lys Thr Ala Ser Ala Asn Thr Pro Tyr Asn Pro Thr Gly Thr Asn Tyr
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 Ala Val Gly Gly Ala Arg Ser Gly Ser Glu Val Asn Trp Asn Gly Phe
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 Val Asn Val Pro Ser Thr Lys Thr Gln Ile Thr Asp His Leu Thr Ala
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Asp Leu Ser Leu Thr Pro Arg Ala Ile Tyr Gly Glu Ser Leu Met Ala
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Gly Val Gln Asp Lys Ala Lys Leu Ala Ser Ser Leu Tyr Asn Ser Gly
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Phe Lys Asn Thr Gln Gly Val Ala Cys Gln Met Pro Ala Arg Thr Thr
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His Pro Ser Gly Arg Thr His Arg Ile Leu Ala Gln Tyr Tyr Arg Ser
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Ile Met Asp Ala Pro Thr His Met Gly Lys Leu Ser Gly Glu Leu Val
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Leu Ser Gly Ser Gln His Ser Ile Trp Ala Asn Val His Ala Ser Asp
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Arg Thr Asp Pro Thr Thr Gln Ile Gly Leu Asp Val Ala Gly Ser Ser
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Ser His Thr Gly Ala Tyr Leu Ser His Gln Asn Gln Asp Tyr Val Leu
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Asp Asp Thr Leu Ser Ser Asp Val Lys Thr Ile Gly Met Gly Leu Tyr
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His Arg His Asp Ile Gly Asn Val Arg Leu Lys Gly Val Ala Gly Ile
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 675 680 685
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Val Leu Asn Gly Gly Ala Gly Asn Asp Val Tyr Ile Phe Arg Lys Gly
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